

## ABSTRACT OF THE INVENTION

A method for performing network reconstruction. The method includes the  
5 steps of selecting a predictor set of features, adding a complement to the predictor set  
based on a quality of prediction, checking to see if all of the features of the predictor  
set are repeated, and then removing one feature from the predictor set. The algorithm  
and method repeats the steps of adding a complement, checking the predictor set and  
removing a feature until the features of the predictor set are repeated. If the features of  
10 the predictor set are repeated, the algorithm and method terminate.